

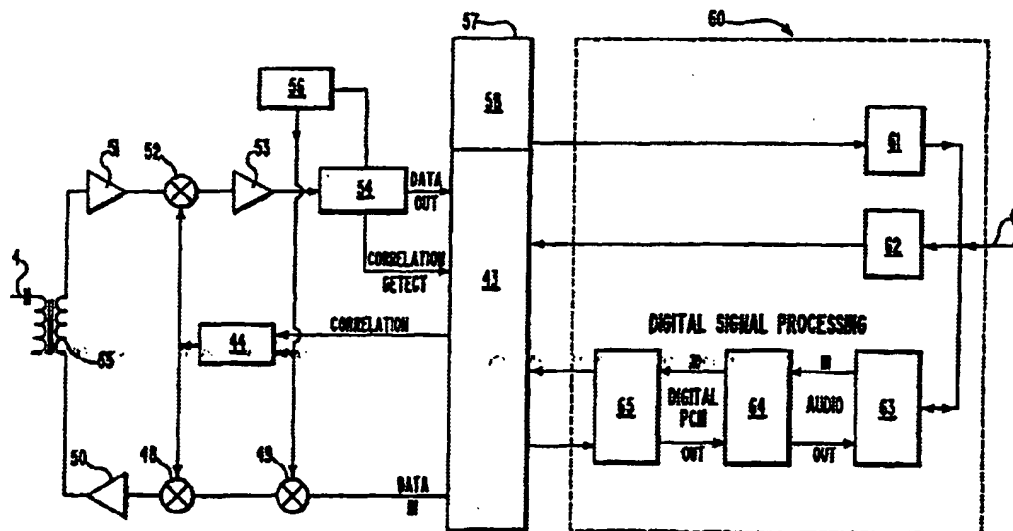
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(54) Title: MULTIPLE ACCESS TELEPHONE EXTENSION SYSTEMS AND METHODS



(57) Abstract

A method and system is provided for conducting multiple access simultaneous telephone communications in full duplex either over the power lines of a building or over a common RF transmission means. The method employs a combination of multiple access techniques selected from among the following: time division (57), code division (48, 52), and frequency division (56). The following features result: (a) security coding to prevent unauthorized access and eavesdropping, (b) multiple simultaneous conversations through identical and closely coupled transmission media, (c) non-interference to other communications systems and users, and (d) processing gain for operating in noisy environments. The method also relates to improvements in cordless telephone communication.